

Things to Know, Understand, and Do

AF Chapter 2: Measurements and Calculations

By the end of Chapter 1, you should

Know how to...
Name the SI units for length, volume, time, mass, temperature, and density
Distinguish between mass and weight
Solve problems involving metric system conversions
Perform calculations using dimensional analysis
Set up a conversion factor
Perform metric to English conversions
Convert between Fahrenheit, Celsius, and Kelvin
Indicate the number of significant figures in a number
Perform calculations to the right number of significant figures
Convert to and from scientific notation
Calculate percent error
Perform calculations involving density
Understand...
How the SI system works
How units cancel in a calculation
The difference between Heat and Temperature
The difference between Accuracy and Precision
How direct and inverse proportions work and what graphs of each look like
How mass and volume are linked through the Density of a substance
THAT I MUST SHOW WORK IN EVERY CALCULATION OR I WILL NOT GET FULL CREDIT

Chapter 2 Homework

Read Ch 2

Answer the following questions

p 42 Q 3 (just a, b, c, e, f, g), 5
p 57 Q 1, 2, 6, 8
p 60 Q 29, 33, 35
p 61 Q 51